



INLINE 14 & 31 POS. CONNECTOR

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1 GENERAL

1 综述

1.1 Purpose

1.1 目的

This application specification includes the guidelines to be followed during assembly, installation and disassembly of the 14 & 31Pos. connector (XRC).

本规范用于指导 14 & 31 Pos connector (XRC)线束连接器的组装,安装和拆卸。



1.2 Customer Drawing/ Documents

1.2 客户图纸/文档

This application specification is based on the latest valid customer drawings.

本规范基于以下有效客户图纸的最新版本。

This application specification is based on the latest customer drawings/Documents.

产品尺寸、材料和表面

2600000-1[845010001]	SHELL 18-14CKT PLUG W/PIN BLUE W/LIP
2600002-1[845020004]	SHELL 18 RECEPTACLE JAM NUT
2600003-1[845020008]	SHELL 18-14CKT RCPT W/PIN BLUE W/LIP XRC
2600004-1[845020027]	PANEL GASKET FOR XRC SHELL 18
2600005-1[845070012]	SHELL 18-14CKT PLG W/Socket BL W/LIP XRC
2600006-1[845080001]	SHELL 18-14CKT RCPT W/SCKT BLUE W/LIP
2600018-1[845370003]	BACK SHELL LONG - SHELL SIZE 24 XRC
2600019-1[845090002]	SIZE 16 CAVITY PLUG XRC
2600008-1[845050001]	SHELL 24-31 CKT PLUG WITH PIN XRC
2600009-1[845050003]	SHELL 24-31 CKT PLUG W/PIN W/LIP XRC
2600010-1[845100004]	SHELL 24-31 CKT PLUG WITH SOCKET XRC
2600011-1[845100005]	SHELL 24-31 CKT PLUG W/Socket W/LIP XRC
2600012-1[845110004]	SHELL 24-31 CKT RECPT WITH PIN
2600013-1[845110005]	SHELL 24-31 CKT RECPT W/PIN W/LIP XRC
2600014-1[845060001]	SHELL 24-31 CKT RECPT W/Socket
2600015-1[845060003]	SHELL 24-31 CKT RECPT W/Socket W/LIP
2600016-1[845060012]	SHELL SIZE 24 RECPT HEX NUT
2600017-1[845060062]	PANEL GASKET FOR XRC SHELL 24Product Specification

2. Product Description

2. 产品说明

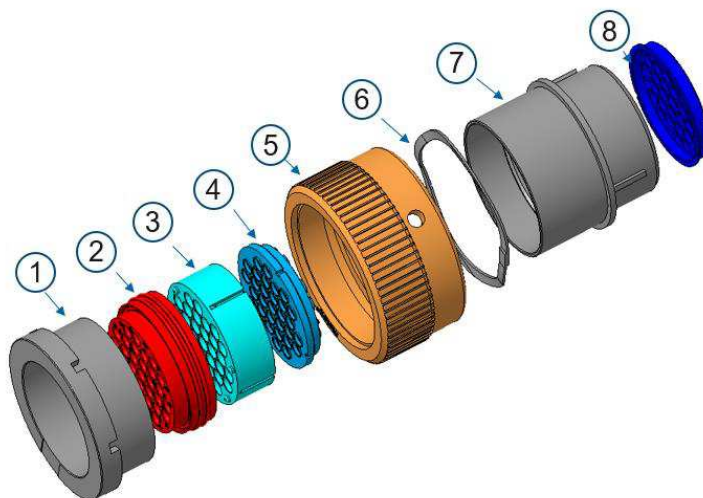
The 14 & 31Pos Sealed Circular Connector Assemblies are used for the connection of Engine Control Units inside the vehicle.

14 & 31Pos 圆形密封连接器用于连接车辆的车身控制单元及仪表盘等的信号及电流传输

2.1 31 & 14 Pos plug connector

2.1 31 位连接器

The plug connector contains below parts. 连接器包含以下零件。



ASSY 31Pos. REC plug connector contains below part.

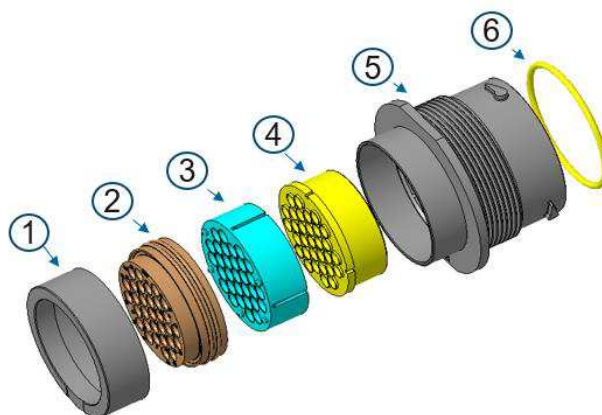
31 位母端连接器组装件由以下部分组成。

1. SEAL RETAINER
密封圈
2. WIRE SEAL
电线密封
3. RETAINER INSERT
保持架插入
4. PIN ALIGNMENT SPACER
引脚对齐间隔
5. COUPLING RING
联合环
6. WAVE RING
波型环
7. PLUG HSG
塑胶
8. FACE SEAL
面部密封圈

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2.2 14 位连接器



ASSY 14Pos. plug connector contains below part.

14 位母端连接器组装件由以下部分组成。

1. SEAL RETAINER
密封圈
2. WIRE SEAL
电线密封
3. RETAINER INSERT
保持架插入
4. SOC. ALIGNMENT SPACER
引脚对齐间隔
5. RECPTACLE HSG
塑胶
6. O RING
圆形圈

3 31 & 14 POS. CONNECTOR ASSEMBLY

3 31 & 14 位连接器组装

3.1 PLUG AND RECEPTACLE ASSEMBLY

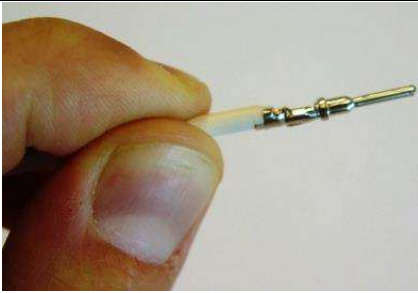
3.1 公端与母端互配

3.1.1 TERMINAL INSERTION

3.1.1 端子插入

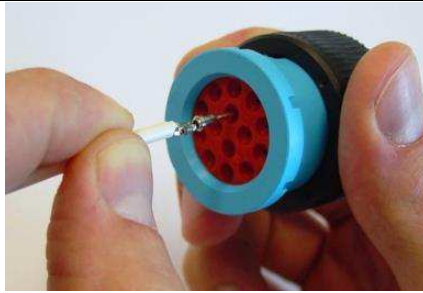
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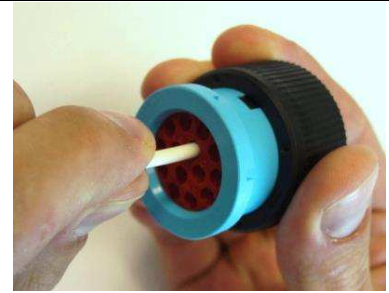
1

Grasp the terminal approximately
1 inch (25.4mm) behind insulation crimp.



2

Hold the connector with the wire seal
grommet facing the terminal.

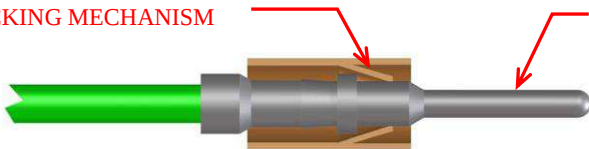


3

Push the terminal straight into the connector
until a positive stop is felt. A slight tug will
confirm that it is properly locked into place.

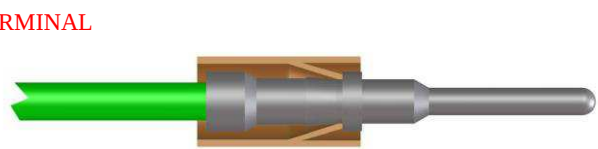
Note: For unused wire cavities, insert
sealing plugs for full environmental sealing.

LOCKING MECHANISM



TERMINAL BEING PUSHED
INTO THE LOCKING MECHANISM

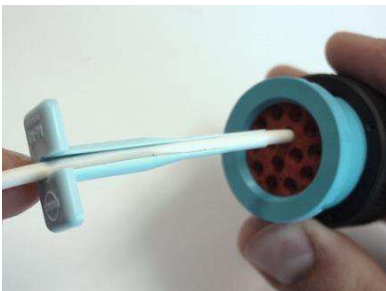
TERMINAL



TERMINAL LOCKED INTO POSITION

3.1.2 TERMINAL EXTRACTION

3.1.2 端子拔出



1

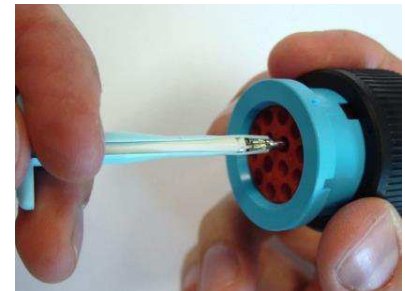
Hold the connector with the wire seal
grommet facing the appropriate size extractor
tool. Snap the tool onto the terminal wire.



2

Slide tool along the wire into the insert cavity
until it engages the terminal and resistance is
felt.

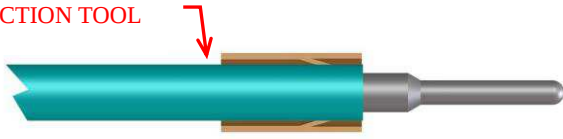
Note: Do not twist or insert tool at an angle.



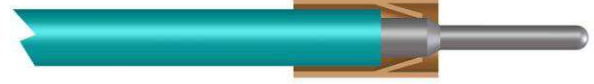
3

Pull the terminal wire lead along with
the tool out of the connector.

EXTRACTION TOOL



**EXTRACTION TOOL INSERTED
 TO UNLOCK TERMINAL**

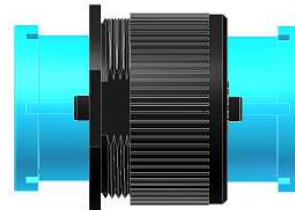
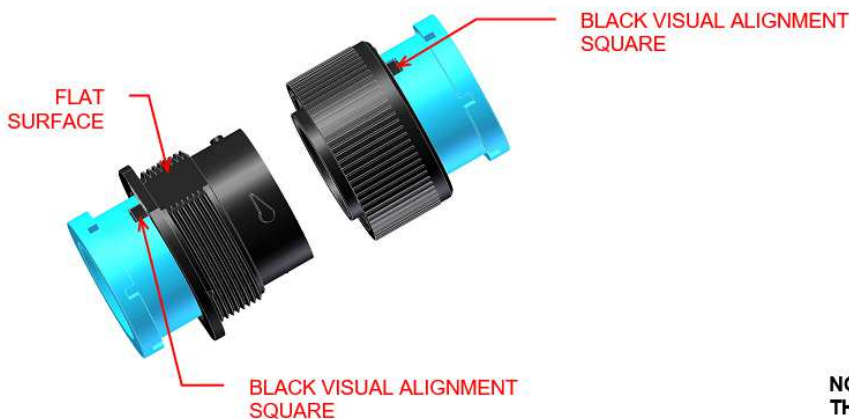


TOOL AND TERMINAL BEING REMOVED

3.1.3 MATING/UNMATING PROCEDURE FOR XRC™ 18-14 CONNECTOR

A. TO MATE THE PLUG TO THE RECEPTACLE –

1. LINE UP THE BLACK VISUAL ALIGNMENT SQUARE ON THE PLUG WITH EITHER THE FLAT SURFACE OR THE BLACK VISUAL ALIGNMENT SQUARE ON THE RECEPTACLE.
2. TURN THE COUPLING RING ¼ TURN CLOCKWISE UNTIL A POSITIVE STOP IS FELT.



**NOTE:
 THERE WILL BE A TACTILE AND AUDIBLE
 FEEDBACK WHEN MATED CORRECTLY.**

B. TO UNMATE THE PLUG FROM THE RECEPTACLE, REVERSE THE ABOVE PROCEDURE.

3.1.4 MATING/UNMATING PROCEDURE FOR XRC™ 24-31 CONNECTOR

A. TO MATE THE PLUG TO THE RECEPTACLE –

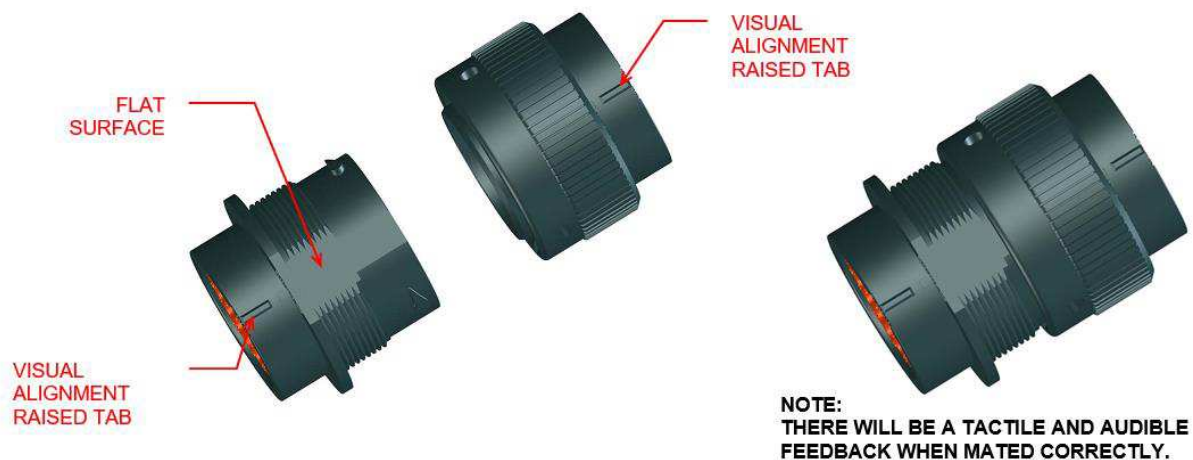
1. LINE UP THE VISUAL ALIGNMENT RAISED TAB ON THE PLUG WITH EITHER THE FLAT SURFACE OR THE VISUAL ALIGNMENT RAISED TAB ON THE RECEPTACLE.
2. TURN THE COUPLING RING ¼ TURN CLOCKWISE UNTIL A POSITIVE STOP IS FELT.



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B. TO UNMATE THE PLUG FROM RECEPTACLE, REVERSE THE ABOVE PROCEDURE.



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